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MOSS EXCHANGE CLUB.

REPORT

For the Year 1903.

Stroud:
PRINTED BY J. ELLIOTT, HIGH STREET.
1903.

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Mr. A. WILSON, F.L.S., Eaton Road, Ilkley, Yorks.
Mr. W. YOUNG, Fairview, Milton Road, Kirkcaldy, N.B.

SECRETARY'S REPORT.

Members will hear with regret that Mr. Waddell has found it necessary to resign the secretaryship of the Club. I am sure he has earned the gratitude and thanks of the Club for the time and trouble he has given to promote the success so far reached, and also for his thoughtful initiation of the Club.

He has asked me to fill his place, and this I have promised to do, so long as I can find time to carry out the duties.

We shall all welcome Mr. Waddell back as Secretary, when he can find time to give to the work.

Professor Barker has finished his two years as Distributer, and I wish to offer him also the gratitude and thanks of the members for the good work he has done for us.

I think it right to lighten the heavy work of the Distributer as much as possible, and with this end in view I hope soon to issue three Lists :—

(1) The *additions* to the Mosses in the Handbook Catalogue, and to the Hepatics in the Hepatic Catalogue.
(2) Renauld's arrangement of the Harpidia.
(3) The Sphagna, according to Warnstorf.

These Lists will greatly facilitate the work of the Distributer, and will better enable members to get the plants they want.

It is also proposed to cancel all Desiderata Lists, and rely upon the marked catalogues drawn up by Professor Barker, and which are now on their rounds. It will help the Distributer if members will copy in their catalogues the figures entered in the circulating catalogues.

Mr. R. H. Meldrum has kindly promised to act as Distributer next time, and members are requested to send their parcels to him any time in December.

WM. INGHAM.

THE EIGHTH ANNUAL REPORT

OF THE

MOSS EXCHANGE CLUB,

1903.

REPORT OF THE DISTRIBUTER FOR 1903.

Thirty members have sent in contributions, and two others Desiderata catalogues only.

The best thanks of the Club should be offered to Messrs. Dixon, Horrell, Ingham, Macvicar, Meldrum, Nicholson, and Wheldon, who have again given their services as referees. The number of packets sent in, and submitted to them, shows the onerous character of their duties. Their reports show, I am glad to say, that the quality of the specimens and the correctness of the names continue to improve, few errors having been detected.

I might repeat most of my last year's report, but content myself with referring members to that.

The inconvenience of having no up-to-date lists of Sphagna, Harpidia, and Novelties is still much felt, but Mr. Ingham is hoping to be able to mitigate it.

It is proposed to again circulate catalogues with the approximate number of each species and variety wanted at next distribution marked thereon. I have again collated the Desiderata lists of members, and find the numbers circulated last year a closer approximation than I ventured to hope. If some members would pay more attention to these numbers they would save themselves, the referees, and the distributer some trouble.

While packets should not be scrappy some err in the opposite direction. Perhaps two packets of a much wanted species come in, out of each of which three fair specimens could be made; two members benefit instead of six. Here the marked lists would be useful.

Most varieties are much wanted, and fertile examples of rarely fruiting species could be well distributed if members would write "—fr." before the names of such species, which at present only a few do.

A hint to younger members—Don't ask for species which you ought to be able to procure for yourselves. Mark *all* others which you want.

T. Barker, Distributer.

MOSSES AND HEPATICS

SENT IN TO THE DISTRIBUTION OF 1903.

	MOSSES.		HEPATICS.		TOTAL.	
	Species and Vars.	Packets.	Species and Vars.	Packets.	Species and Vars.	Packets.
Miss E. Armitage ..	1	30	1	4	2	34
Mr. J. E. Bagnall ..	3	47	—	—	3	47
Prof. T. Barker ..	14	132	—	—	14	132
Mr. H. Beesley ..	12	100	1	5	13	105
Rev. C. H. Binstead	18	87	—	—	18	87
Rev. T. A. Brode ..	14	48	2	6	16	54
Mr. E. Cleminshaw ..	8	76	—	—	8	76
Mr. Ll. J. Cocks ..	6	26	2	8	8	34
Mr. C. Crossland ..	4	43	3	6	7	49
Mr. H. Darton ..	7	28	—	—	7	28
Mr. T. Dennis ..	3	12	—	—	3	12
Mr. H. N. Dixon ..	14	139	—	—	14	139
Mr. J. B. Duncan ..	18	80	—	—	18	80
Mr. W. P. Hamilton	2	12	—	—	2	12
Mr. G. Holmes ..	5	26	—	—	5	26
Mr. J. Hunter ..	2	2	5	5	7	7
Mr. W. Ingham ..	24	182	6	32	30	214
Mr. A. B. Jackson ..	5	31	—	—	5	31
Mr. D. A. Jones ..	25	212	—	—	25	212
Rev. Canon H. W. Lett	2	23	2	9	4	32
Rev. D. Lillie ..	11	96	2	11	13	107
Rev. W. R. Linton	14	89	4	35	18	124
Mr. R. H. Meldrum	18	116	—	—	18	116
Mr. W. E. Nicholson	19	130	—	—	19	130
Rev. W. H. Painter	1	15	—	—	1	15
Rev. H. P. Reader	6	40	3	12	9	52
Sir J. Stirling ..	11	37	—	—	11	37
Rev. C. H. Waddell	20	100	11	55	31	155
Mr. J. A. Wheldon	35	152	6	28	41	180
Mr. A. Wilson ..	15	64	5	14	20	78
TOTAL	337	2175	53	230	390	2405

LIST OF MOSSES AND HEPATICS.

Sphagnum Girgensohnii Russ., Loch Swilly, N. Donegal, 8/01. J.H.; also, Langwell Deer Forest, Caithness, 7/01. D.L.

S. Russowii v. *virescens* Russ., Watten, Caithness, 7/01. D.L.

S. rubellum v. *rubrum* Grav., Goathland (62), 9/02 T.A.B.; also, Clougha (60), 1/00. J.A.W; and f. *robusta* Warnst., Upper Roeburndale (60), 10/99. J.A.W.: v. *versicolor* Russ., Saltersgate (62) 9/02. W.I.: v. *violaceum* Warnst., Goathland (62), 7/02. T.A.B.; and, Saltersgate (62), 8/02. W.I.

S. acutifolium v. *flavo-rubellum* Warnst., Goathland (62), 9/02. T.A.B.

S. subnitens R. & W., near Wellington (40), 9/02. W.H.P.; also, near Loch Swilly, N. Donegal, 8/01. J.H.: v. *flavo-rubellum* Warnst.: Goathland (62), 9/02. T.A.B.: v. *pallescens* Warnst., near Goathland (62), 9/02. W.L.: v. *versicolor* W., Hulland Moss (57), 8/01. W.R.L.: v. *violascens* Warnst., Clougha (60), 9/02. H.B. v. *virescens* Warnst., Saltersgate Beck (62), 7/02. W I.

S. squarrosum v. *spectabile* R., Heselden Glen, W. Yorks, 7/02. W.R.L.

S. teres v. *imbricatum* Warnst., near Goathland (62), 8/02. W.I.: v. *subsquarrosum* Warnst., Watten, Caithness, 10/02. D.L.

S. pulchrum Warnst., Cockerham Moss (60), 6/00. J.A.W.

S. recurvum v. *mucronatum* Warnst., Saltersgate Beck (62), 8/02. W.I.; also, Goathland (62), 9/02. T.A.B.

S. molluscum Bruch., Cockerham Moss (60), 6/00. J.A.W.

S. compactum D.C., Longridge Fell (60), 10/98. J.A.W.

S. contortum Schultz., Docker (60), 8/02. A.W.

S. cymbifolium Ehrh., Docker (60), 6/01. A.W.

S. papillosum v. *normale* Warnst., Goathland (62), 9/02. T.A.B.; v. *sublœve* Limp., Goathland (62), 9/02. T.A.B.

Andreœa petrophila Ehrh., Ben Lawers (88), 8/02. J.B.D.: v. *acuminata* Schp., Holwick Fell (65), 6/97. W.I.

Tetraphis Browniana Grev., Mallyan Spout, Goathland (62), 8/98. W.I.; also, Hebden Bridge (63), 4/00, Leg. Needham, Comm. C.C.

Catharinea angustata Brid., Bedgbury Wood, Kent, 5/98. W.E.N.

Catharinea crispa James, Over Wyresdale (60), 6/02. J.A.W. and A.W.; also, Marshaw (60), 6/00. A.W.; and Hebden Bridge (63), 7/97. Leg. Needham, Comm., C.C.

Polytrichum alpinum L., Ben Lawers, Perths., 7/98. A.W.

P. sexangulare Ehrh., Ben Nevis, 7/98. H.N.D.; and Ben Lawers (88), 8/02. J.B.D.

P. strictum Banks, Mallowdale Pike (60), 6/00 J.A.W.

P. gracile Dicks., Cockerham Moss (60), 6/00. J.A.W.

P. formosum Hedw., Saintfield, Co. Down, 8/00. C.H.W.

Diphyscium foliosum v. *acutifolium* Ldb., Penrhyn Dendraeth (48), 12/02. D.A.J.

Archidium alternifolium Schp., Bewdley (37), 11/02. J.B.D.

Pleuridium axillare Ldb., Bedwell Park, Herts., 11/02. H.D.

P. subulatum Rab., Foss (62), 4/97. W.I.

Ditrichum tenuifolium Ldb., St Leonard's Forest, West Sussex, 9/02. W.E.N.

Swartzia montana Ldb., Bolton Woods (64), 9/99. W.I.

Seligeria pusilla B. & S., Near Stroud, Glos., 5/02. G.H.

S. paucifolia Carr., Lewes, Sussex, 5/01. W.E.N.

Brachyodus trichodes Fürnr., Buxton (57), 12/02. T.B.

Sælania cæsia Lindb., Maristuen, Norway, 8/00. H.N.D.

Cynodontium virens Schp., near Killin (88), 7/02. C.H.B.

Dichodontium pellucidum Schp., Rugeley, Staffs., 5/02. H.P.R.

Dicranella heteromalla v. *interrupta* B. & S., Widdy Bank Fell (66), 8/01. D.A.J.

D. crispa Schp., Warbling Hill, Sussex, 2/99. W.E.N.

D. secunda Ldb., Creagna Caillich (88), 8/02. J.B.D.

D. varia Schimp., Walton (59), 3/93. J.A.W.

D. Schreberi v. *elata* Schp., Watten, Caithness, 1/02. D.L.; also, Goudhurst (16), 1/02. J.S. "The latter is small, but referable to that var."—R.H.M.

Dicranoweisia crispula Lindb., Ben Heasgarnich (88), 7/01. R.H.M.; also, Craig Chailleach (88), 7/02. C.H.B.; and Ben Lawers (88), 8/02. J.B.D.

Campylopus subulatus v. *elongatus* Bosw., Bettws-y-Coed (49), 8/99. T.B. "I have not hitherto seen any named specimen, but I am of opinion that, if these are rightly named, the variety is not worth retaining."—R.H.M. "I believe the specimens to be what passes for the perhaps not important variety. The plant is found in little rocky hollows in and beside streams where it is periodically overflowed and silted up, which probably accounts for the difference of habit."—T.B.

C. Schimperi Milde, Ben Voirlich (88), 7/97. H.N.D.

C. flexuosus v. *paradoxus* Husn., Cowburn, Chapel en le Frith (57), 6/01. T.B: v. *zonatus* Mol., Bettws-y-Coed (49), 8/99. T.B.; also, Over Wyresdale (60), 9/02. A.W.

C. brevipilus B. & S., Camster, Caithness, 7/02. D.L.

Dicranodontium longirostre B. & S., Over Wyresdale (60), 6/02. J.A.W. & A.W.; also, Maentwrog Valley (48), 11/01. D.A.J.: v. *alpinum* Schp., Whernside, Yorks., 7/96. H.N.D.; also, Ingleboro', W. Yorks., 8/97. J.A.W.

Dicranum spurium Hedw., Barmby Moor (61), 8/00. Leg. W.I., Comm. T.A.B.

D. Bergeri Bland., Wybunbury Moss (58), 8/02. D.A.J.

D. Bonjeani De Not., near Preston (60), 4/01. H.B.

D. scoparium v. *orthophyllum* Brid., Towyn (48), 10/02. D.A.J.: v. *turfosum* Braith., Snæfell, Isle of Man, 7/02. H.B.

D. fuscesens Turn., Greygarth Fell (60), 6/01. J.A.W.; and Mallowdale Fell (60), 6/02. A.W.

D. strictum Schleich., Plithfield, Staffs., 1899. H.P.R.

D. flagellare Hedw., Abbots Bromley, Staffs., 10/93. J.E.B.

D. uncinatum C.M., Nephin Mtn., Co. Mayo, 5/01. H.W.L.

D. longifolium Ehrh., Htes. Pyrenées, 8/02. W.E.N.

Fissidens rufulus B. & S., Bolton Abbey (64), 8/02. T.A.B.

F. osmundioides Hedw., Sma' Glen (88), 10/96. R.H.M.

Grimmia conferta v. *pruinosa* Braithw., Care Hill, Co. Antrim 6/01. C.H.W.

G. maritima Turn., St. John's Point, Co. Down, 7/02. C.H.W.: also, Murthal, , 7/02. H.D.

G. incurva Schwgr., Titterstone, Clee Hill (40), 7/02. J.B.D.

G. funalis Schp., Ben Lawers (88), 8/02. D.A.J.: also, J.B.D.

Grimmia torquata Hornsch., Ben Laoigh (88), 8/91. R.H.M.

G. orbicularis Bruch., Talsarnau (48), 12/02. D.A.J.; also, Bringsten, Westmoreland, 3/87. C.H.W.

G. subsquarrosa Wils., Loch Tay (88), 7/02. C.H.B.

G. Stirtoni Schp., Llangollen (50), 8/00. T.B.

G. elatior B. & S., Zermatt, Switz., 8/02. J.S.

G. decipiens Lindb., Bodmin Moors, Cornwall, 8/86. H.N.D.; also, Callerfountain (88), 3/01. R.H.M.; and Harlech (48), 10/01. D.A.J.

G. robusta Ferg., Glen Lyon (88), 7/02. C.H.B.

G. ovata v. *cylindrica.* Glen Lyon (88), 7/02. C.H.B. "I consider rightly placed, although it does not altogether fit Limpricht's description in regard to the leaves, 'hairless or with short hair;' but that again depends on what one considers 'short.' Like many other varieties it is of no great importance."—R.H.M.

G. patens B. & S., Ben Lawers (88), 8/02. J.B.D.

G. commutata Hüb., Moncreiffe Hill (88), 6/87. R.H.M.

G. alpestris Schleich., Luchon Pyrenees, 8/02. W.E.N.

G. arenaria Hampe., Talsarnau (48), 12/01. D.A.J.

Rhacomitrium protensum Braun., Kentmore, Westmorland, 6/86. C.H.W.; also, Naddle Forest, Westmorland, 6/01 A.W.

R. canescens v. *ericoides* B. & S., Ease Gill (60), 7/99. A.W.

Coscinodon cribrosus Spr., Minffordd (48), 12/01. D.A.J.

Hedwigia ciliata v. *viridis* Schp., Buxted, Sussex, 3/02. W.E.N.: v. *striata* B. & S., Inchnadamph, Sutherland, 7/99. H.N.D.

H. imberbis Spr., Maentwrog Valley (48), 8/00. D.A.J.

Acaulon triquetrum C.M., Newhaven, Sussex, 1/02. W.E.N.

Pottia Heimii Fürnr., near Heysham (60), 4/02. J.A.W.

P. intermedia Fürnr., Lytham (60), 1/00. J.A.W.

Tortula aloides De Not., Dartmouth, 10/02. H.D.

T. marginata Spr., Goudhurst (16), 4/02. J.S.

T. rigida Schrad., Old Humbrestone, Leicester, 12/02. A.B.J.

T. muralis v. *rupestris* Wils., Yealand (60), 4/02. J.A.W.

T. mutica Ldb., Bedale, N. Yorks., 9/98. J.A.W.

Tortula intermedia Berk., Yealand (60), 4/02. J.A.W.

T. princeps De Not., Beddgelert (49), 6/02. D.A.J.

T. papillosa Wils., Lewes, Sussex, 6/02. W.E.N.; also, near Evington, Leicester, 1/03. A.B.J.

Barbula rubella v. *ruberrima* Braithw., Craig Chailleach (88), 7/97. H.N.D.

B. tophacea v. *acutifolia* Wils., Scraptoft, Leicester, 12/02. A.B.J.

B. fallax v. *brevifolia* Schultz, near S. Croxton, Leicester, 12/02. A.B.J.

B. sinuosa Braithw., Sawtrees, Herts., 4/02. H.D.

B. icmadophila Schp., Lärdalsören, Norway, 7/00. H.N.D.; also, 6/00. W.E.N.

B. Hornschuchiana Schultz., Little Horsted, Sussex, 4/02. W.E.N.; also, South Shore (60), 3/98. J.A.W.

Weisia crispa Mitt., Stroud, Glos., 4/02. G.H.

W. multicapsularis Mitt., Barcombe and Laughton, Sussex, 3/02. W.E.N.

W. rostellata Ldb., Hamsey, Sussex, 11/01. W.E,N.

W. squarrosa C.M., Hamsey, Sussex, 11/01. W.E.N.

W. microstoma v. *elata* C.M., Blaenau, Ffestiniog (48), 5/02, D.A.J.

W. microstoma v. *brachycarpa* Schp., Yeldersley, Shirley (57), 6/02. W.R.L. "A remarkable form of *W. microstoma*, with leaves having practically quite plane margins, and which might readily be taken for *W. squarrosa*. The capsule however is that of *microstoma*, one of its best features being the much greater differentiation of the cells of the exothecium about the mouth of the capsules in this species than in *squarrosa*. It is referred to the var. *brachycarpa* chiefly on account of the vegetative characters, as the fruit does not very closely agree with the published descriptions."—W.E.N.

W. tenuis C.M., near Shrewsbury, Salop, 9/02. W.P.H. "A very poor and ill-developed plant."—W.E.N. Not distributed.

W. curvirostris C.M., Moygannon Glen, Co. Down, 7/00. C.H.W. "I was inclined to refer this plant to *W. rupestris* on account of the upper areolation being rather opaque, but Mr. Dixon points out that it is an unusual form of *curvirostris*, probably the var. *scabra*, though the stems are not scabrous in the plant which I have examined. The spreading leaves and more opaque papillose areolation seem to be good characters of the var."—W.E.N.

Weisia curvirostris v. *insignis* Dixon, near Lochay Bridge (88), 7/97 ; Meall nan Tarmachan (88), 7/93. H.N.D.

Trichostomum crispulum Bruch., Filey (61), 8/97 ; and Bolton Woods (64), 9/99. W.I. ; also, Silverdale (60), 4/01. A.W. "No doubt rightly referred to *crispulum*, but the apices of the leaves are not so characteristically cucullate as in Mr. Ingham's specimens. —W.E.N.

T. mutabile v. *cophocarpum* Schp., Ingleton (65), 8/02. W.I. "One should I suppose hesitate in referring a barren form to a variety which depends to some extent upon fruiting characters, but the vegetative character claimed for the var. i.e. the more sharply acuminate leaf apex is well marked in these specimens."—W E.N.

T. inclinatum Dixon, Groomsport, Co. Down, 7/87. C.H.W. "Mostly or wholly *T. mutabile*."—W.E.N. Not distributed.

T. nitidum Schp., Harlech Castle (48), 12/02. D.A.J.

T. tortuosum Dixon, Grindelwald, Switz., 8/02. E.C.

T. fragile Dixon, Dunnet Links, Caithness, 5/02. D.L.

Cinclidotus Brebissoni Husn., Sawtrees, Herts., 4/02. H.D. "Much mixed with other Mosses."—W.E.N. Not distributed.

Encalypta rhabdocarpa Schwgr. Dunnet Links, Caithness, 7/02. D.L. "Most of these specimens have the nerve longly excurrent, in a toothed hair point, var. *pilifera* N. & H."—W.E.N.

Anœctangium compactum Schwgr., c. fr., Ben Laoigh (88), 8/91 ; also, Loch Coumshigaun, Co. Waterford, 7/02. C.H.W. "Rather more robust than is usual, and with rather broader leaves, which do not, however, in other characters agree with the var. *pellucidum*." —W.E.N.

Zygodon lapponicus B. & S., Ben Dheiceach (88), 7/98. R.H.M. ; also, near Moffatt (72), 7/01. J.B.D.

Z. viridissimus v. *rupestris* Lindb., Dupplin (88), 3/01. R.H.M. ; also, Watten, Caithness, 12/01. D.L.

Z. Stirtoni Schimp.. Watten, Caithness, 11/02. D.L.

Z. gracilis Wils., Heseltine Ghyll, Yorks., 7/02. C.H.B.

Ulota Drummondii Brid., Altnaharra, Sutherland, 7/99. H.N.D.

U. Hutchinsiæ Hammar, Loch Coumshigaun, Co. Waterford, 7/02. C.H.W ; also, Tyn-y-groes (48), 5/02. D.A.J. ; and Glen Lyon (88), 7/02. C.H.B.

Orthotrichum anomalum v. *saxatile*, near Stroud, Glos., 1901. G.H.

O. Lyellii H. & S., Naddle Forest, Westmorland, 6/01. A.W.

Orthotrichum speciosum Nees, Ballater (92), 7/72. T.B.

O. rivulare Turn., Ballynahinch, Co. Down, 4/97. C.H.W.

O. diaphanum Schrad., S. Croxton, Leicester, 12/02. A.B.J.

Schistostega osmundacea Mohr., Frodsham, 8/02. D.A.J.

Œdipodium Griffithianum Schwgr., Great Langdale, Lakes, (69), 7/94. T.B.

Splachnum ampullaceum L., Killin, (88), 7/02. Ll.J.C.

S. sphæricum L. f., Watten, Caithness, (6/02. D.L.

S. vasculosum L., Craig Chailleach (88), 7/97. H.N.D.

Tayloria tenuis Schp., near Killin, (88), 7/02. C.H.B

T. lingulata Ldb., Ptarmigan (88), 7/02. C.H.B.

Discelium nudum Brid., Whaley Bridge (58), 3/97. T.B.

Physcomitrella patens v. *Lucasiana* Schp., Whaley Bridge (58), 10/01. T.B.

Physcomitrium sphæricum Brid., Whaley Bridge (58), 10/96 T.B.

P. pyriforme Brid., near Preston (60), 4/01. H.B.

Funaria Templetoni Sm., Moygannon Glen, Co. Down, 7/00. C.H.W.

Aulacomnium turgidum Schwgr., Ben Dreiscach (88), 7/98. R.H.M.; also, Meallna Saone, Perthsh., 7/02. Ll.J.C.

A. palustre Schwgr., Strensall Common, N. Yorks., 10/88. J.A.W.; also, Clee Hills (40), 7/02. J.B.D.

Timmia austriaca Hedw., Zermatt, Switz., 7/01, and Lœrdal, Norway, 7/00. W.E.N.; also, Zermatt, Switz., 8/02. J.S.

Philonotis fontana Brid., Goathland, Whitby, 8/90. T.D.: v. *ampliretis* Dixon, Cwm Foel, Cynicht (48), 12/02. D.A.J.; also, Hebden Bridge (63), 5/00. Leg. Needham, Comm. C.C.

P. adpressa Ferg., Cwm Foel Cynicht (48), 6/02. D.A.J.

P. calcarea Schp., Taren yr Esgol, Brecon, 7/02. W.R.L.; also, Newbald, E. Yorks., 8/99. T.D.

Leptobryum pyriforme Wils., Zermatt, Switz., 8/02. J.S.: v. *minus* Phil., Coatham Marshes (62), 5/02. W.I.

Webera cruda Schwgr., Zermatt, Switz., 8/02. J.S.

W. nutans Hedw., Ribbleton, Preston (60), 6/02. H.B.: v. *longiseta*, Cockerham Moss (60), 5/00. H.B.

Webera annotina Schwgr., Hessay (64) 9/00. W.I. Too much mixed with other mosses. Not distributed: v. *proligera* (Lindb., Rugeley, Staffs., 5/02. H.P.R.

W. carnea Schp., near Preston (60), 6/01. H.B.; also, Walmers, Herts., 11/02. H.D.

W. albicans Schp., Bolton Woods, W. Yorks., 5/01. A.W.

Bryum filiforme Dicks., Camlough Mtn., Co. Armagh, 10/98. C.H.W.

B. pendulum B. & S., St. Annes (60), 6/98. J.A.W.; also, near Moffat (72), 7/01. J.B.D.

B. Warneum Bland., Birkdale (59), 9/98. J.A.W.

B. callophyllum R.B., Seaton Carew (66), 9/02. W.I.

B. Marratii Wils., Coatham Marshes, (62), 9/98. W.I.

B. lacustre Brid., Coatham Marshes (62), 9/98 & 7/00. W.I.; also, Coatham (62), 9/02. T.A.B.

B. cæspiticium v. *imbricatum* B & S., Whaley Bridge (57), 7/02. T.B. "Although this has the leaves here and there of the var. *imbricatum* shape, I do not think the branches can be called julaceous, and I should say that it is not true *B. Kunzei.* (var. *imbricatum,*) but a starved condition of *B. cæspiticium.*"—J.A.W. "I think it is just on the borderland, where the rule of 'de gustibus' comes in Taking all things into account, I should be inclined to refer it to the var., but I admit that it is anything but well-marked. I should not be inclined to quarrel with the designation 'approaching var. *imbricatum.*' Some of the stems are markedly julaceous, especially when moist, others scarcely so. Certainly no one would be inclined to raise this to the rank of a species."—H.N.D.

B. erythrocarpum Schwgr., Shiehallion, Perthsh., 7/02. C.H.B.

B. atropurpureum v. *gracilentum* Tayl., Armitage, Staffs., 5/02. H.P.R.

B. alpinum Huds., Hartfell (72), 7/01. J.B.D.

B. Mildeanum Jur., Glen Lyon, Perthsh. 7/02. C.H.B.

B. mamillatum Lindb., Hunstanton Links, W. Norfolk, 7/02. Leg. Rev. W. E. Thompson. Comm. H.N.D.

B. roseum Schreb., Dundrum, Co. Down, 4/02. C.H.W.

Mnium affine Bland., Hawkesyard, Staffs., 1901. H.P.R.

M. serratum Shrad., Campsie Glen, Stirlingsh., 7/98. C.H.W.

M. orthorrhynchum B. & S., Ingleton, Yorks., 7/02. C.H.B; also, Chapel le Dale, W. Yorks., 7/02; W.R.L.

Mnium lycopodioides Hook., Luchon Pyrenees, 7/02 ; also, Maristuen, Norway, 8/00. W.E.N.

M. spinosum Schwgr., Grindelwald, Switz., 8/02. E.C. "In several of these packets, mixed with the above, will be found *M. spinulosum* B. & S., distinguished by its brighter green colour, small size, and synoicous inflorescence."—J.A.W.

M. cinclidioides Hübn., Camster, Caithness, 7/02. D.L.

M. subglobosum B. & S., Goodber Common (60), 5/02. A.W.

Fontinalis antipyretica L., Altcar (59), 5/00. J.A.W.

Neckera pumila v. *Philippeana* Milde., Dolgelly (48), 8/98. T.B.

Leucodon sciuroides Schwgr., Grindelwald, Switz., 8/02. E.C.

Myrinia pulvinata Schp., Willersley, Herefordsh., 8/02. C.H.B.

Myurella julacea B. & S., Creag na Caillich, 8/02. J.B.D.

M. apiculata B. & S., Craig Chailleach (88), 7/02. C.H.B.

Leskea polycarpa Ehrh., Highley (40), 9/02. J.B.D.

Anomodon longifolius Hartm., Forest of Dean, Glos., 2/02. E.A.

A. attenuatus Hübn., Elcho (88), 12/02. R.H.M, ; also, Canton Vaud, Switz., 9/02. J.S.

Pterigynandrum filiforme Hedw., Ben Lawers (88), 8/02. J.B.D.; also, Canton Valais, Switz., 9/02. J.S.

Heterocladium heteropterum v. *fallax* Milde., Erîdge, Sussex, 10/02. W.E.N.

Pseudoleskea atrovirens B. & S., Ben Lawers (88), 9/98. R.H.M.

Thuidium abietinum B. & S., Magilligan, Co. Derry, 7/00. H.W.L. "Much mixed with other Mosses."—W.I. Not distributed ; also, Walkern, Herts., 6/02. H.D.

T. decipiens De Not., Craig Chailleach (88), 7/97. H.N.D.; Ben Lawers (88), 7/02. C.H.B. ; Ben Lawers, (88), 8/02. E.C. ; and Ben Cruban, Perthsh., 7/02. Ll.J.C.

T. delicatulum Mitt., Ingleton, W. Yorks., 7/02. W.R.L. ; also, Ballykinler, Co. Down, 9/00. New Co. Record. C.H.W.

Orthothecium rufescens B. & S. Grindelwald, Switz., 8/02. E.C.

Lescuræa striata v. *saxicola* B. & S., Zermatt, Switz., 8/02. J.S.

Camptothecium lutescens B. &. S., Mablethorpe, Lincoln, 7/00. Leg. E. A. Peak. Comm. T.D.

Camptothecium nitens Sch., Ochils (88), 4/91. R.H.M.; Halesowen, Worcestersh., 9/02. E.C.; and Lochan na Lairige, Perthsh., 7/02. Ll.J.C.

Brachythecium salebrosum v. *palustre* Schp., Shirley (57), 5/02. W.R.L. "Without fruit I cannot separate this from *B. rutabulum*. I cannot dispute the above name, but it might just as well go under *B. rutabulum*.—W.I. Perhaps the species are mixed together."

B. rutabulum B. & S. var., near Carnforth (60), 4/02. J.A.W. "I send a form of *Brachythecium rutabulum*, which occurs on dry limestone rocks. It is a large 'rambling' form which differs materially in habitat and habit from var. *robustum*, to which a member of the Club suggested to me that it belonged. With us var. *robustum* is a green compactly tufted plant, often growing in cushions in damp places, borders of ponds, &c. The present plant is yellowish, stems arched and straggling, and occurs in dry, rocky places. Has it a varietal name?"—J.A.W. "It does not seem to come under any of our named varieties. I gather the same form on bare banks by dykes in limestone districts."—W.I.

Brachythecium rutabulum v. *robustum* B. & S., Walton (59), 11/97, J.A.W.

B. rivulare B. & S., Chatburn (59), 8/98. J.A.W: v. *chrysoleucon* Spr., Cannock Chase (39), 12/00. H.B.

B. plumosum B. & S., Chorley (59), 4/01. H.B.

B. cæspitosum Dixon, Coughton Court (38), 3/93. J.E.B; also, Linduden Abbey, Kirkcudbright, 8/02. W.P.H.

Eurhynchium cirrosum Jur., Ben Lawers (88), 7/02. Ll.J.C.

E. pumilum Schp., Killeen Glen, Co. Down, 3/98. C.H.W.; also, Hawkesyard, Staffs., 3/02. H.P.R.

E. curvisetum Husn., Alfriston, Sussex, 1/00. W.E.N.

E. tenellum Milde., Harlech Castle (48), 11/02. D.A.J.

E. myosuroides var., On trees, Harlech (48), 12/02. D.A.J. "I had a small specimen of Mr. Jones' very small *E. myosuroides* before. It was sent to Mr. Bagnall, who suggested that it be described as var. *minus*. It appeared to me, however, to be too near some already described forms, notably var. *filescens* Ren., and forma *humilis* Gravet, for this to be desirable, and I should refer it to var. *cavernarum* Mol., under which var. Limpricht unites the two plants mentioned above Boulay's remarks on them may be cited. 'Sur les roches tres secs et ombragés.....la plante se rabougrit, les branches principales restent grêles et courtes, peu diviseés (f. *humilis* Gravet in litt). Ailleurs principalment dans les Pyrénées, ...les tiges et les rameaux s' allongent et s' effilent, les feuilles deviennent lanceolées, tres étroites: la plante ressemble alors à la var. *filiforme* du *H. cupressiforme* (f. *filescens* Ren.)' I have no specimen

of the former plant, but authentic specimens of the var. *filescens* show a close resemblance to the Welsh one, scarcely differing except in the longer filiform branches. I think, therefore, there can be little doubt that the description of the f. *humilis* above applies well to it, and as Limpricht unites the two under the name of var. *cavernarum* Mol.. I should think one cannot be wrong in referring the Welsh plant to that var. I do not think that the arboreal habitat need offer any hindrance."—H.N.D.

E. myosuroides var. Rocks, Garth Minffordd (48), 12/02. D.A.J. "I should scarcely think this can be considered the same thing as the last, though approaching it. Perhaps 'approaching var. *cavernarum* Mol.' would best describe it."—H.N.D.

E. circinnatum B. & S., Penzance, Cornwall, 2/66. Leg. Curnow, Mis. R.H.M.

E. rusciforme v. *alopecuroides* Brid., Tanygrisian (48), 6/02. D.A.J.

E. rotundifolium Milde., near Stroud, Glos., 2/02. G.H.

Plagiothecium silesiacum B. & S., Canton Vaud, Switz., 9/02. J.S.

P. denticulatum v. *aptychus* , Ingleton, W. Yorks., 7/02. W.R.L.

Amblystegium fluviatile B. & S., River Bann, Co. Down, 7/00. C.H.W.

A. Kochii B. & S., (?) near Perth (88), 3/92. R.H.M. "I have tried this for a form of v. *polycarpon* of *Hypnum aduncum*, but although it has the habit and some features of that variable var., the areolation is that of *Amblystegium*. I believe that it is not *A. Kochii*, but rather the unknown *A. trichopodium* (Schultz.) C.H. Dr. Braithwaite told me some time ago that he despaired of ever seeing *A. trichopodium*, and that we must consider it sunk under *A. Kochii*. From the description only I take Mr. Meldrum's plant as the *A. trichopodium* of the Br. Moss Flora."—W.I.

Hypnum polygamum Schimp., Southport (59), 6/98. J.A.W.

H. chrysophyllum Brid., Burton Salmon (63), 4/97. W.I.; and Silverdale (60), 6/00. J.A.W.: v. *erectum* Bagn. Dove Dale, Staffs., 6/95. J.E.B.

Hypnum Sommerfeltii Myr., near Stroud, Glos., 1901. G.H.; and Castle Howard (62), 3/01. T.A.B.

H. Halleri Linn. f., Ben Lawers, 7/02. C.H.B.; also, Grindelwald, Switz., 8/02. E.C.: and Canton Valais, Switz., 9/02. J.S.

H. aduncum (typicum) v. *diversifolium* Ren., Coatham Marshes (62), 8/02. W.I.; also 9/02. T.A.B.

Hypnum aduncum (Kneiffii) v *polycarpon* Bland., Birkenhead (58). New record, 8/02. J.A.W.; also, Naburn (61), 3/02. W.I. "I have seen the latter from several N. of England localities, and it seems nearest the v. *polycarpon*, with which it agrees in habit, and its short median cells, but not in the acuminate leaf points. Perhaps v. *polycarpon* forma would be the best name to give it."—J.A.W.

H. aduncum (pseudofluitans) v. *paternum* Sanio, St. Annes (60), 5/99. J.A.W.: v. *paternum* near f. *gracilis* Ren., Askham Bog (64), 4/02. W.I.; also, T.A.B.

H. Sendtneri Schimp., Birkdale (59), 6/99. J.A.W.

H. Wilsoni v. *hamatum* Lindb., Southport (59), 7/99. J.A.W.

H. lycopodioides Schwgr., Ainsdale (59), 3/98. J.A.W.

H. fluitans (Gr. *amphibium*) v. *setiforme* Ren., Goodber Common (60), 5/02. A.W.; also, v. *setiforme* Ren., approaching v. *gracile*, Soyland, Halifax (63), 4/01. C.C.

H. fluitans (Gr. *amphibium*) v. *Jeanbernati* , Axe Edge (57), 4/02. W.R.L. "I think some of these are var. *gracile* Boul.; the others MAY BE *Jeanbernati*, but they may on the contrary be dry land *gracile*."—J.A.W. "The Axe Edge plants are essentially the same form, and I should think nearest var. *gracile*, though rather robust for that. I think that in my Herb. I should have named them 'intermediate between var. *Jeanbernati* and var. *gracile*, nearest the latter.'"—H.N.D.

H. fluitans (Gr. *falcatum*) v. *falcatum*, Black Mountain, Brecon, 7/02. W.R.L. "It belongs to group *amphibium*, and I think is related to the var. *squalidum* Ren. & Dix. This var. is very near var. *Jeanbernati*, differing principally in its sudden subulate acumen, and its rather strongly falcate leaves. The large flattened lower leaves of the original specimens are, I imagine, pathological, and I have seen plants gathered in the same vicinity without them, but agreeing with the apical portions, where they are strongly falcate."—J.A.W. "'Group *amphibium* nearest var. *squalidum*' would I think best designate it."—H.N.D.

H. fluitans (Gr. *exannulatum*) v. *montana* , Hulland Moss (57), 6/02. W.R.L. "Mostly *H. revolvens*, though there are a few stems of above var."—J.A.W.

H. fluitans (*falcatum*) v. *Arnellii* Sanio, Strensall Common (62), 4/00. W.I. "In structure and shape the leaves agree well with those of var. *Arnellii*, and there is nothing against this determination, except that the stems are hardly closely and regularly pinnate, but I have seen stems that are so here and there, in tufts of what is evidently the same plant from this locality, and these may be altered by seasonable conditions."—J.A.W.

Hymum uncinatum v. *plumulosum* Schp., Buxton (57/, 6/02. T.B. "Should not this be rather v. *plumosum* Schp.? The leaves are more striate, and the plant more robust than my v. *plumulosum* c. fr. from Teesdale. The long circinate acumen also would seem to point to v. *plumosum*."—W.I. "Plants from the same locality sent by Mr. Wheldon to Mons. Renauld were named by the latter v. *plumulosum*."—T.B.

H. revolvens v. *Cossoni* Ren., Docker (60), 5/01. A.W.

H. intermedium Lindb., near Perth (88), 3/02. R.H.M.; Inchnadamph, Sutherland, 7/99. W.E.N; and Askern Spa (63), 6/01. W.I.

H. commutatum v. approaching *virescens* Schpr., near Chorley (59), 4/01.—H.B.

H. incurvatum Schrad., Ingleton, W. Yorks, 7/02. C.H.B.; also, W.R.L.

H. cupressiforme v. *uncinatulum* Bry. Eur., Buxton (57), 6/02. T.B. "Although I do not know this var., I know v. *ericetorum* sufficiently well in its various forms to place this moss under it. Fruit is wanted to determine v. *uncinatulum*, and the branches are given as hooked."—W.I. "Mr. Dixon thinks the specimens may belong to the above var., but that that is only a prostrate form of v. *ericetorum*. The vegetative characters agree well with Limpricht's description of the var., which he states to be everywhere common."—T.B.

H. cupressiforme v. *tectorum* Brid., Ausdell (60), 7/00. H.B.

H. Patientiæ Lindb., Yelderley (57), 8/01. W.R.L.; also, Tatham Moor (60), 2/00. A.W.

H. hamulosum B. & S., near Lochay Bridge (88), 7/97. H.N.D.; also, Cader Idris (48), 8/00; and Meall Tarmachan (88), 8/02. D.A.J.

H. Bambergeri Schp., Craig Chailleach (88), 7/02. Ll.J.C.

H. crista-castrensis L.; c. fr., Braemar, Aberdeen, 1871. Leg. F. B. White. Comm. R.H.M.; also, Grindelwald, Switz., 8/02. E.C.; and Borrowdale, Cumberland, 6/02. A.W.

H. eugyrium Schp., Kentmere, Westmorland, 8/99. C.H.W.

H. orchraceum v. *flaccidum* Milde, Arncliffe Wood (62), 9/01. T.A.B.

H. scorpioides L., Naburn (61), 3/02. W.I.

H. stramineum Dicks., Caulochan, Forfarsh., 7/90. R.H.M.

H. trifarium W. & M., Ben Lawers (88), 8/02. D.A.J.; Meall Tarmachan (88), 8/02. J.B.D.

Hypnum turgescens Schp., Ben Lawers (88), 7/02. C.H.B.

H. cordifolium Hedw., var., Strensall Common, N. Yorks., 10/88. J.A.W. "A curious form, approaching *H. giganteum* in some respects, but it is autoicous."—J.A.W. "I make this *H. giganteum*. The alar cells are abruptly marked off, and the areolation is narrower than in *H. cordifolium*."—W.I.

H. giganteum Schimp., near Ilkley, Yorks., 6/00. J.A.W.

H. cuspidatum L., Crow Glen, Co. Antrim, 5/01. C.H.W.: v. *pungens* Schp., Walton, Preston, (59), 3/01. H.B.

Hylocomium splendens v. *gracilius* Boul., Harlech (48), 9/02. D.A.J.

H. brevirostre B. & S., Killin (88), 7/91. R.H.M.; and near Moffatt (72), 7/01. J.B.D.

H. rugosum De Not., Ben Lawers (88), 8/02. J.B.D.; also, Magilligan, Co. Derry, 7/00. C.H.W.

Jubula Hutchinsiæ Dum., Hebden Bridge (63), 4/02. Leg. Needham., Comm. C.C.

Lejeunea ovata Tayl., Muckross, Co. Kerry, 4/99. H.W.L.

L. hamatifolia Hook., Sleeve Donard, Co. Down, 7/92. C.H.W.

L. flava (Sw.), Loch Swilly, N. Donegal, 7/02. J.H.

L. ulicina Tayl., Castlewillan Park, Co. Down, 6/97. C.H.W.

L. calcarea Lib., Allt a Mhoineas, Loch Tay (88), 7/02. Ll.J.C.

Porella platyphylla L., Silverdale (60), 6/00. J.A.W.; and near Warton (60), 3/01. A.W.

Pleurozia cochleariformis (Weiss), Meall na Saone, Perthsh., 7/02. Ll.J.C.

Blepharozia ciliaris (L.), Long Sleddale, Westmorland, 8/99. C.H.W.

Trichocolea tomentella (Erhr.), near Milford, N. Donegal. Leg. D. McArdle. Comm. J.H.

Lepidozia cupressina (Sw.), Wyresdale (60), 6/02. A.W.; also, Clougha (60), 9/02. H.B.; and Loch Swilly, N. Donegal, 8/01. J.H.

L. reptans (L.), Hawkesyard, Staffs., 1900. H.P.R.; also, Hebden Bridge (63), 12/02. C.C.

L. Pearsoni Spruce, Wyresdale (60), 6/02. J.A.W. & A.W.

Kantia trichomanis (L.), Upper Loch Bray, Co. Wicklow, 6/98. H.W.L.

Cephalozia bicuspidata L., Over Kellet (60), 4/02. J.A.W.

C. Sphagni Dicks., Cockerham Moss (60), 10/00. J.A.W.

Chiloscyphus polyanthos (L.), Annahilt, Co. Down, 6/01. C.H.W.

Mylia Taylori Hook., Edale (57), 4/02. W.R.L.; also, Corcaginny, Kerry, 6/98. Leg. H.W.L., Comm. J.H.

Plagiochila spinulosa (Dicks.), Loch Swilly, N. Donegal, 7/02. J.H.

Jungermania Flœrkii v. *Naumanniana* Nees, Clougha (60), 4/02. J.A.W.

J. barbata Schmid, Silverdale (60), 10/00. J.A.W.

J. gracilis Schleich., Greygarth Fell (60), 7/01. J.A.W.; also, Brimham Rocks (64), 9/02. W.I.; and Hebden Bridge (63), 12/02. C.C.

J. minuta Crantz., Boula Loughs, Co. Waterford, 7/02. C.H.W.

Eucalyx obovata Nees., Edale (57), 4/02. W.R.L.

Nardia scalaris (Schrad.), Tollymore Park, Co. Down, 6/00. C.H.W.

Acolea crenulata Gottsche, Slemish Mtn., Co. Antrim, 8/93. C.H.W.

Fossombronia pusilla (L.), Skelsmugh, Westmorland, 9/99. C.H.W.

F. cristata Lindb., Langwith Moor (61), 12/02. T.A.B.

Pellia Neesiana Limpr., Edale (57), 4/02. W.R.L.

P. epiphylla L., Strensall Common (62), 4/98. W.I.; also, Saintfield, Co. Down, 4/02. C.H.W.

P. calycina Tayl., Staffs., 4/02. H.P.R.

Aneura multifida L., Harrisend Fell (60), 4/00. A.W.

A. multifida v. *ambrosioides* Nees, Edale (57), 4/02; also, Hulland Moss (57), 6/02. W.R.L.

A. sinuata (Dicks.), Saintfield, Co. Down, 1/03. C.H.W.

Marchantia polymorpha L., near Chipping (60), 7/00. A.W. also, Barkstone (64), 5/00. W.I.

Conocephalus conicus L., Hammerton (64), 10/01. W.I.; also, Skenfrith, Hereford, 3/02. E.A.

Preissia commutata Nees, Coatham Marshes (62), 5/02. W.I.

Lunularia cruciata L., Watten, Caithness, 11/02. D.L.; Barkstone (64), 11/02. W.I.; Magheralin, Co. Down, 9/98. C.H.W. and Hawkesyard, Staffs, 1902. H.P.R.

Riccia glauca L., Langwith Moor (61), 12/02. T.A.B.

Anthoceros lævis L., Swiney, Caithness, 11/02. D.L.

Reference to Report for 1899, Page 41.

"*J. exsecta* Schmid., Sandy peat bank, Moidart, 15/3/99. S. M. MACVICAR." This is *Jung. exsectæformis* Breidler, recently published as a species distinct from *J. exsecta*. Whether permantly distinct or not, the plants are easily distinguishable in their typical forms. The former has much larger leaf cells than the latter, and the gemmæ, which are usually present on the apical leaves, are angular, while in *J. exsecta* they are elliptical or oblong. The characters taken from the gemmæ appear to be less constant than that of the leaf cell. Typical *J. exsecta* is a larger plant than *J. exsectæformis*, with the upper part of the stems frequently ascending. On the Continent it is stated to prefer stumps, and *J. exsectæformis* to prefer the ground. From the specimens which I have examined from Scotland, *J. exsectæformis* appears to be the more frequent of the two, but this may not eventually prove to be the case."—SYMERS M. MACVICAR.

MOSS EXCHANGE CLUB.

SECTION II.

The above is now the name of the Junior Club.

Mr. D. A. Jones manages this Section, and Mr. J. B. Duncan has been appointed the Treasurer.

Six new members have joined during the year.

Over 500 packets of mosses were sent in for examination.

At the last distribution 18 parcels were received, containing 1820 packets, which, Mr. Jones says, were fairly well prepared.

About 25 members, who have taken active interest in the Club, have benefited by the distribution.

BALANCE SHEET FOR 1902.

	£	s.	d.
By 41 Subscriptions at 5/-	10	5	0
By Sale of Catalogues	0	5	7
	£10	10	7

	£	s.	d.
To Balance	1	16	7
To Distributer's Expenses	1	3	0
To Mr. Elliott for Printing Report for 1902 ..	5	4	6
To Secretarial Expenses: 10/- Mr. Ingham, 4/7 Mr. Waddell ..	0	14	7
To Treasurer's Expenses	0	5	3
	9	3	11
To Balance ..	1	6	8
	£10	10	7